CLAIMS

1. Jet regulator (1) comprising a jet fractionating device inside a mounting housing (6), **characterized in that** the mounting housing (6) is divided into at least two housing parts (7, 8), and the housing parts (7, 8) can be connected with one another, and the housing part (7) at the flow inlet side is connected fixedly and non-detachably with the jet fractionating device (2).

2. Jet regulator according to Claim 1, **characterized in that** at least two housing parts can be connected to one another in releasable fashion.

3. Jet regulator according to Claim 1 or 2, **characterized in that** the jet fractionating device is formed as a perforated plate (2).

4. Jet regulator according to one of Claims 1 to 3, **characterized in that** a jet regulating device (4) is connected downstream from the jet fractionating device at a flow outlet side.

5. Jet regulator according to Claims 1 to 5, **characterized in that** at least two jet regulating devices (4) that can optionally be placed into the mounting housing (6) are allocated to the mounting housing (6), which is made of the at least two housing parts (7, 8) that can be connected to one another in releasable fashion.

6. Jet regulator according to Claims 1 to 5, **characterized in that** the jet fractionating device (2) is connected in one piece with the allocated housing part (7).

7. Jet regulator according to one of Claims 1 to 6, **characterized in that** the mounting housing (6) has the two adjacent housing parts (7, 8) that can be

connected to one another in a separating plane that is oriented transverse to the inflow direction.

8. Jet regulator according to one of Claims 1 to 7, **characterized in that** the housing parts (7, 8) of the mounting housing (6) can be locked together in releasable fashion.

9. Jet regulator according to one of Claims 1 to 8, **characterized in that** the housing part (8) at the flow outlet side is formed in a shape of a sleeve, and that at least one insert part (5) of the jet regulating device (4) can be placed into the housing part (8).

10. Jet regulator according to one of Claims 1 to 9, **characterized in that** the at least one insert part (5) can be placed into the housing part (7) allocated to the jet regulating device (4) from a flow inlet side, up to an insertion stop (9) or a support.

11. Jet regulator according to one of Claims 1 to 10, **characterized in that** the jet regulating device (4) of the jet regulator (1) has a modular construction, and a plurality of insert parts (5a, 5b, 5c, 5d, 5e) that can be optionally combined with one another are allocated to the jet regulating device.

12. Jet regulator according to one of Claims 1 to 11, **characterized in that** the jet regulator has at least one insert part (5) that can be placed into the mounting housing (6), and that has webs (11) that are oriented transverse to the direction of flow and that delimit between them through-openings (12), and that the webs (11) of the at least one insert part (5) are disposed in the manner of a grid or a net, intersecting at intersect nodes (10).

13. Jet regulator according to one of Claims 1 to 12, **characterized in that** at the least one insert part (5) of the jet regulating device (4) is situated relative to the jet fractionating device in such a way that the individual jets produced in the jet fractionating device impinge on the intersect nodes (10) of the at least one insert part (5).

14. Jet regulator according to one of Claims 1 to 13, **characterized in that** at least two adjacent insert parts (5) are provided with webs (11) that are disposed in the manner of a grid or net.

15. Jet regulator according to one of Claims 1 to 14, **characterized in that** the webs (11) and intersect nodes (10) of the at least two adjacent insert parts (5a, 5b) align with one another.

16. Jet regulator according to one of Claims 1 to 15, **characterized in that** the at least two insert parts (5a, 5b) are of identical construction.

17. Jet regulator according to one of Claims 1 to 15, **characterized in that** there are situated downstream, in the direction of flow, from through-openings (12) of one of the insert parts (5a, 5c), the intersect nodes (10) of the adjacent insert part (5b, 5e).

18. Jet regulator according to one of Claims 1 to 17, **characterized in that** the at least one insert part (5) at the flow inlet side and/or one insert part (5) at the flow outlet side is situated in a plane that is preferably oriented transverse to the direction of flow.

19. Jet regulator according to one of Claims 1 to 18, **characterized in that** the at least one insert part (5a, 5b) at the flow inlet side and/or at the flow outlet

side is formed in the manner of a grid, and has two intersecting sets of parallel grid webs.

20. Jet regulator according to one of Claims 1 to 19, **characterized in that** an insert part (5c) at the flow inlet side, and/or an insert part (5c) at the flow outlet side, has a set of radial webs (11') that intersect at the intersect nodes with a set of concentric annular webs (11").

21. Jet regulator according to one of Claims 1 to 20, **characterized in that** the insert part (5d) at the flow inlet side and/or the insert part (5d) at the flow outlet side has webs (11) that intersect in stelliform fashion or in the manner of a net.

22. Jet regulator according to one of Claims 1 to 12, **characterized in that** the insert parts (5) are plate-shaped.

23. Jet regulator according to one of Claims 1 to 22, **characterized in that** there is connected downstream from the jet regulating device (4), at the flow outlet side, a flow rectifier (14) that comprises through-openings (15) whose width is less than a length thereof in the direction of flow.

24. Jet regulator according to one of claims 1 to 23, **characterized in that** the flow rectifier (14) is situated at an exit end of the mounting housing (6).

25. Jet regulator according to one of Claims 1 to 24, **characterized in that** the flow rectifier (14) is connected in one piece with the mounting housing (6), or can be placed into the mounting housing (6) as a separate insert part.

26. Jet regulator according to one of Claims 1 to 25, **characterized in that** the flow rectifier (14) has through-openings (15) that are rectangular, shaped as

segments of a circle (Fig. 10), or honeycomb-shaped (Fig. 9).

27. Jet regulator according to one of Claims 1 to 26, **characterized in that** the jet regulating device and/or the flow rectifier (14) include at least one metal sieve.

28. Jet regulator according to one of Claims 1 to 27, **characterized in that** the housing part (8) at the outflow side comprises, at least in the area of the water exit opening, a soft and/or water-repellent surface.

29. Jet regulator according to one of Claims 1 to 28, **characterized in that** the housing part (8) is manufactured, at least in the area of the water exit opening, from an elastic material.

30. Jet regulator according to one of Claims 1 to 29, **characterized in that** the housing part (8) at the outflow side is made essentially of an elastic material and/or a material having a soft or water-repellent surface.

31. Jet regulator according to one of Claims 1 to 29, **characterized in that** the housing part (8) at the outflow side is stiffened by longitudinal webs (22) that are distributed, preferably uniformly, in the circumferential direction.

32. Jet regulator according to one of Claims 1 to 31, **characterized in that** the longitudinal webs (22) are provided at least in the area of the exit opening.

33. Jet regulator according to one of Claims 1 to 32, **characterized in that** the housing part (8) at the outflow side has, in the area of the water exit opening, at least one constriction (23) or similar narrowing of its flow cross-section.

34. Jet regulator according to one of Claims 1 to 33, **characterized in that** the outflow-side housing part (8) can be connected with the adjacent housing part (7) at the flow inlet side, preferably via a locking connection, in particular a peripheral one.